

## CLAIMS

What is claimed is:

- 1    1.    An electrical fuse box comprising:  
2            a frame;  
3            a plurality of electrical components pre-assembled within said frame;  
4            a plurality of connector modules pre-assembled within said frame, wherein said  
5    *connector modules are dimensioned and configured for electrically engaging electrical wires;*  
6            an upper cover mounted on said frame; and  
7            a lower cover mounted on said frame.
  
- 1    2.    The electrical fuse box of claim 1, wherein said electrical components comprise  
2    *relays, circuit breakers, J-case fuses, and blade fuses.*
  
- 1    3.    The electrical fuse box of claim 1, wherein said connector modules comprise  
2    connection contacts.
  
- 1    4.    *The electrical fuse box of claim 3, wherein said connection contacts extend through*  
2    *said frame and make an electrical connection with said electrical components.*
  
- 1    5.    The electrical fuse box of claim 1, wherein said frame comprises at least one locking  
2    receiver.

1 6. The electrical fuse box of claim 5, wherein each of said upper cover and lower cover  
2 comprise a locking member dimensioned and configured to engage said locking receiver.

1 7. The electrical fuse box of claim 1, wherein each of said upper cover and lower cover  
2 are pivotally mounted on said frame.

1 8. An electrical fuse relay box comprising:  
2 a frame, wherein said frame comprises an upper and a lower compartment;  
3 a plurality of electrical components pre-assembled within said upper compartment;  
4 a plurality of connector modules pre-assembled within said lower compartment,  
5 wherein said connector modules are dimensioned and configured for electrically engaging  
6 electrical wires;  
7 an upper cover mounted on said upper compartment; and  
8 a lower cover mounted on said lower compartment.

1 9. The electrical fuse relay box of claim 8, wherein said electrical components comprise  
2 relays, circuit breakers, J-case fuses, and blade fuses.

1 10. The electrical fuse relay box of claim 8, wherein said connector modules comprise  
2 connection contacts.

1 11. The electrical fuse relay box of claim 10, wherein said connection contacts extend  
2 through said frame and make an electrical connection with said electrical components.

1 12. The electrical fuse relay box of claim 8, wherein said frame comprises at least one  
2 locking receiver.

1 13. The electrical fuse relay box of claim 12, wherein each of said upper cover and lower  
2 cover comprise a locking member dimensioned and configured to engage said locking  
3 receiver.

1 14. The electrical fuse box of claim 8, wherein each of said upper cover and lower cover  
2 are pivotally mounted on said frame.

1 15. An electrical fuse relay box comprising:  
2 a frame, wherein said frame comprises an upper compartment, a lower compartment,  
3 and at least one locking receiver;  
4 a plurality of electrical components pre-assembled within said upper compartment;  
5 a plurality of connector modules pre-assembled within said lower compartment,  
6 wherein said connector modules are dimensioned and configured for electrically engaging  
7 electrical wires;  
8 an upper cover pivotally mounted on said upper compartment; and  
9 a lower cover pivotally mounted on said lower compartment,  
10 wherein each of said upper cover and lower cover comprise a locking member  
11 dimensioned and configured to engage said locking receiver.

1 16. The electrical fuse relay box of claim 15, wherein said electrical components  
2 comprise relays, circuit breakers, J-case fuses, and blade fuses.

1 17. The electrical fuse relay box of claim 15, wherein said connector modules comprise  
2 connection contacts.

1 18. The electrical fuse relay box of claim 17, wherein said connection contacts extend  
2 through said frame and make an electrical connection with said electrical components.

1 19. A method of pre-assembling an electrical fuse relay box, said electrical fuse relay box  
2 comprising a frame having an upper compartment and a lower compartment, said method  
3 comprising:

4 mounting a plurality of electrical components within said upper compartment;

5 mounting a plurality of connector modules within said lower compartment, wherein  
6 said connector modules being configured for electrically engaging electrical wires;

7 positioning an upper cover on said upper compartment; and

8 positioning a lower cover on said lower compartment.

1 20. The method of claim 19, wherein said electrical components comprise relays, circuit  
2 breakers, J-case fuses, and blade fuses.

1 21. The method of claim 19, wherein said connector modules comprise connection  
2 contacts.

1 22. The method of claim 21, further comprising extending said connection contacts  
2 through said frame to make an electrical connection with said electrical components.

1 23. The method of claim 19, wherein said frame comprises at least one locking receiver.

1 24. The method of claim 23, wherein each of said upper cover and lower cover comprise  
2 a locking member dimensioned and configured to engage said locking receiver.

1 25. The method of claim 19, wherein said upper cover is pivotally mounted on said upper  
2 compartment and said lower cover is pivotally mounted on said lower compartment.